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THE WEST LOTHIAN EDUCATION COMMITTEE.

# ANNUAL REPORT

ON THE

MEDICAL INSPECTION AND TREATMENT

OF

SCHOOL CHILDREN

FOR THE

Year ending 31st July, 1930.



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BATHGATE

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# THE WEST LOTHIAN EDUCATION COMMITTEE.

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## Annual Report on the Medical Inspection and Treatment of School Children for the year ending 31st July, 1930.

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### 1.—LIST OF STAFF.

SUPERVISING MEDICAL OFFICER—G. Y. Richardson, M.D., D.P.H.

MEDICAL OFFICER—John Hunter, M.B., D.P.H.

ASSISTANT MEDICAL OFFICER—Christa B. Ross, M.B., D.P.H.

DENTIST—Jeàn T. Smith, L.D.S. (resigned 4/11/29).

Allanwood Neilson, L.D.S. (assumed duty 25/11/29).

CLERKES—Grace L. Fisher (resigned 31/8/29).

M. Gillon (assumed duty 1/9/29).

NURSES—Jean Reekie.

Jean MacKinnon.

Christina M. Russell.

Jean Macdonald (assumed duty 1/9/30).

Marion Wishart (assumed duty 11/1/30).

Helen S. Baikie (assumed duty 26/2/30).

Nurse Russell assumed whole-time duty with the dentist on 13th January, 1930. Nurse Macdonald was granted leave of absence on health grounds in January 1930.

CHANGE OF STAFF.—Miss Jeàn T. Smith, L.D.S., resigned her post as Dentist on 4th November, 1929, and was succeeded by Mr. Allanwood Neilson, L.D.S., who took over the duties on 25th November 1929. Miss Fisher resigned her post as Clerkess on 31/8/29 and was succeeded in that appointment by Miss M. Gillon on 1 9 29.

# MEDICAL OFFICERS IN CHARGE OF SCHOOL CLINICS :—

## PART-TIME STAFF.

The following is a complete list of medical practitioners employed part time in connection with the treatment of minor ailments in the school clinics :—

Armadale P.S.	...	...	Hugh Somerville, M.B., Ch.B.
Bathgate P.S.	...	...	W. M. B. Rossie, L.R.C.P. & S. (Ed.).
Blackburn P.S.	...	...	Thos. Gilchrist, M.B., Ch.B.
Blackridge P.S.	...	...	W. T. Lindsay, M.B., Ch.B.
Bo'ness Old Academy	...	...	W. A. Shafto, M.D., D.P.H.
Broxburn H.S.	...	...	Alex. Scott, M.D.
Bridgend P.S.	...	...	H. P. Caithness, M.D., D.P.H.
Carriden P.S. ...	...	...	N. C. Fischer, M.B., Ch.B.
Fauldhouse P.S.	...	...	S. G. Ogilvy, M.D.
Linlithgow P.S.	...	...	E. E. Candlish, M.B., Ch.B.
Livingston Station P.S.	...	...	J. F. Lang, M.A., M.B., Ch.B.
South Queensferry P.S.	...	...	G. A. Dickson, M.B., C.M.
Stoneyburn P.S.	...	...	C. M. Seward, M.D. (resigned 31/7/30).
Uphall P.S.	...	...	R. H. Thomson, M.C., L.R.C.P. & S. (Ed.), L.D.S.
Whitburn P.S.	...	...	Thos. Gilchrist, M.B., Ch.B.
Winchburgh P.S.	...	...	J. Fraser Orr, M.B., Ch.B.

## CLINIC NURSES :—

Armadale P.S.	...	...	M. C. Stevenson.
Bathgate P.S.	...	...	Jeanie P. Pollock.
Blackburn P.S.	...	...	Margaret Ellis.
Blackridge P.S.	...	...	Sarah A. McAlpine.
Bridgend P.S.	...	...	Susan F. Campbell.
Carriden P.S.	...	...	J. Macalister.
Fauldhouse P.S.	...	...	Mary Christie.
Linlithgow P.S.	...	...	Catherine McLean.
Livingston Station P.S.	...	...	Margaret Wilson.
So. Queensferry P.S.	...	...	Mary W. M'Culloch.
Stoneyburn P.S.	...	...	W. A. P. Taylor (resigned 21/11/29). V. Johnstone (appointed 29/11/29, resigned 21/4/30). J. Mackenzie (appointed 29/4/30).
Uphall P.S.	...	...	A. K. Scott.
Winchburgh P.S.	...	...	L. Bennett.

The following three Clinics continue to be served by the whole-time Nurses employed by the Education Committee :—

Bo'ness Old Academy	...	...	Helen S. Baikie.
Broxburn H.S.	...	...	Jean MacKinnon.
Whitburn P.S.	...	...	Jean Reekie.

## 2.—SCHOOLS.

(a) The number of schools in the county is 47, of which 7 are Roman Catholic. This shows a decrease of 1 compared with the previous year, due to the closing of the school at Hopetoun.

(b) The average number of children on the register for the year is 16,440, and the number in average daily attendance, 15,057 (91·6 per cent). The diminution in the school population noted in the two preceeding reports continues and amounted to 130 pupils. The percentage attendance however is very good, notwithstanding a heavy incidence of infectious disease, and constitutes a record for the county. The increase amounts to 0·7 per cent.

## 3 and 4.—VISITS AND SPECIAL VISITS.

The number of visits to schools amounted to a total of 626. Routine visits numbered 421 and special visits 205. In addition, 277 visits of varying length of time were made to the office for administrative duties.

## 5.—SANITARY CONDITION OF SCHOOLS.

Full reports continue to be made at regular intervals during the year to the Committee by the Master of Works and it would therefore appear to be unnecessary to include them here in detail.

## 6.—ORGANISATION AND ADMINISTRATION.

(a) SYSTEM OF MEDICAL INSPECTION.—The system detailed on page 6 of the Report for the year ending 31st July, 1922, has been continued during the year, with the addition of three extra age groups. The following groups of children underwent a systematic medical examination :—

- (1) Entrants, *i.e.*, children entering upon school life for the first time since the previous corresponding visit of the Medical Officer.
- (2) Junior Pupils, *i.e.*, children born between 1/8/22 and 31/7/23—those who attained the age of 7 in the year under review.
- (3) Intermediate Pupils, *i.e.*, children born between 1/8/20 and 31/7/21—those who became 9 during the year.
- (4) Leavers, *i.e.*, children born between 1/8/16 and 31/7/17—those who became 13 during the year.
- (5) Advanced Pupils, *i.e.*, children born between 1/8/14 and 31/7/15—those who became 15 during the year.
- (6) Secondary Pupils, *i.e.*, children born between 1/8/15 and 31/7/16—those who became 16 during the year.
- (7) Students in their 4th, 5th and 6th years of study. The pupils in this group are examined twice during the year.

The pupils in groups 2, 3, and 5 above were brought into the

scheme as from the date of appointment of the Assistant Medical Officer, namely, 1st February, 1930.

The foregoing work, along with duties arising therefrom, constitutes the main part of the activities of the medical department. The visitation of the schools was carried out on the same lines as were indicated in the Report for the year ending 31st July, 1924, page 8.

(b) SCHOOL NURSES.—(1) Five whole-time nurses are employed by the Committee in duties connected with medical inspection and treatment and dental treatment—an increase of 1 during the year. As from the 13th January, the services of one of these nurses were placed at the disposal of the dentist, thus adding greatly to the facilities of that department. (2) The duties of the nurses remain as outlined in previous reports. Their work in connection with applications for relief continued and occupied a considerable amount of time. Reports have already been given to the Committee by the Director of Education regarding the nature and amount of relief granted.

(c) ARRANGEMENTS FOR “FOLLOWING UP.”—See Report for year ending 31/7/20, page 6.

(d) SUPERVISION OF INFECTIOUS DISEASE.—See Reports for years ending 31/7/20, page 6, and 31/7/23, page 8.

(e) CO-ORDINATION WITH PUBLIC HEALTH SERVICE.—See Reports for years ending 31/7/24, pages 8 and 9, and 31/7/29, page 5, as modified by the Local Government (Scotland) Act, 1929.

(f) PRESENCE OF PARENTS AT MEDICAL INSPECTION.—As in previous years, it was mainly the parents of the Entrants who attended at the medical examination. There is a gradual lessening of such attendance as the pupils pass to the higher age groups. All over, the attendance of parents was approximately the same as in previous years. Interviews with parents were always arranged when necessary.

## 7.—THE PHYSICAL CONDITION OF THE SCHOOL CHILDREN.

(a) Total number of children examined :—

	Boys.	Girls.	Total.
(i) Systematic or Routine Examinations	3204	3074	6278
* (ii) Special Examinations ...	479	490	969
(iii) Re-Examinations ..	1167	1209	2376
Grand Totals ...	4850	4773	9623

\* Exclusive of the examination of children suspected to be mentally defective.

In addition to the above work, the Secondary Pupils in their 4th,



5th, and 6th years were examined twice during the year. The numbers of such examinations amounted to 372. All these pupils were of good physique and health, and fit for the courses they were pursuing.

(b) Number of children notified to parents as having one or more defects :—

			Boys.	Girls.	Total.
Systematic Cases	...	...	550	626	1176

			Boys.	Girls.	Total.
Special Cases	...	...	188	207	395

(Exclusive of Mentally Defective Children).

The foregoing figures refer solely to work carried out by the Medical Officers personally. The following details refer to work carried out by the Nurses during the course of their duties in following up cases found to be defective. The total number of examinations and re-examinations made by them in schools amounted to 5196. In addition, they made 970 home visits in cases where these were found to be necessary or desirable, and 20 visits escorting 105 children to the Oculist in Edinburgh for visual or ocular examination. They also reported on 855 children in connection with applications for relief—a diminution of approximately 340 cases as compared with the preceding year.

(c) Number of children receiving attention (excluding cases of defective teeth).—Over 78 per cent of the children notified to their parents as requiring medical or parental attention were found to have received attention. A note of the operations which have been performed as the result of notices sent from this office is included on page 32 of this report.

(d) CLOTHING.

	SYSTEMATIC CASES.							SPECIAL CASES.		
	No. Exam- ined.	Insufficient		In need of Repair.		Dirty.		In- suffi- cient.	In need of Re- pair.	Dirty.
		No.	%	No.	%	No.	%			
Boys .. ...	3204	...	...	12	...	22	...	...	6	3
Girls ... ..	3074	...	...	2	...	11	...	2	...	...
Totals ... ..	6278	...	...	14	0 22	33	0 52	2	6	3

## (e) FOOTGEAR.

	SYSTEMATIC CASES.			SPECIAL CASES.
	No. Exam- ined.	Number Unsatisfactory.	%	Number Unsatisfactory.
Boys ... ..	3204	38	...	15
Girls ... ..	3074	40	...	8
Totals ... ..	6278	78	1·24	23

## (f) AVERAGE HEIGHTS AND WEIGHTS.

	Number Measured.	Average Age.		Average Height (inches).	Average Weight (pounds).
		Years.	Months.		
Boys ...	70	4	9	40·20	40·09
	730	5	5	42·68	42·00
	297	6	7	45·34	47·21
	482	7	3	46·76	49·95
	250	8	9	50·18	58·32
	540	9	3	50·92	60·45
	230	12	9	57·34	82·34
	441	13	3	58·24	85·35
	35	14	9	63·42	107·80
	86	15	4	64·32	109·70
	24	16	3	66·66	126·33
Girls ...	79	4	10	40·97	38·78
	731	5	5	42·39	39·89
	310	6	7	44·81	44·71
	421	7	3	46·65	48·33
	248	8	9	49·66	55·19
	513	9	4	50·47	57·20
	234	12	9	58·05	83·47
	406	13	3	59·36	89·13
	34	14	8	63·44	105·14
	57	15	4	63·68	112·96
	12	16	2	64·58	117·16

## (g) CLEANLINESS OF HEAD AND BODY.

SYSTEMATIC CASES.												SPECIAL CASES.		
No. Exam- ined.	Head.			Body.				Head.		Body.				
	Verminous		Nits.	Dirty.		Verminous		No. Verm- inous.	No. with Nits.	No. Dirty.	No. Verm- inous.			
	No.	%		No.	%	No.	%							
Boys ...	3204	...	3	...	6	...	4	...	4	...	9	...		
Girls ...	3074	...	75	...	2	...	1	...	...	23	1	3		
Totals	6278	...	78	1·24	8	0·12	5	0·07	4	23	10	3		

## (h) CONDITION OF SKIN.

SYSTEMATIC CASES.												SPECIAL CASES.													
No. Exam- ined.	Head.						Body.						Head.				Body.								
	R.		L.		F.		O.D.		R.		L.		S.		O.D.		R.		I.		S.		O. D.		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	R.	No.	No.	No.	No.	No.	No.		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	No.	No.	No.	No.	No.	No.		
Boys ...	3204	1	...	36	..	1	...	8	...	...	...	3	...	1	...	4	...	2	9	...	5	...	2	1	2
Girls ...	3074	...	...	36	...	...	...	9	..	...	...	3	...	2	...	6	..	...	10	...	2	...	1	...	...
Totals	6278	1	0.01	72	1.14	1	0.01	17	0.27	...	...	6	0.09	3	0.04	10	0.15	2	19	...	7	...	3	1	2

Note. R = Ringworm. I = Impetigo Contagiosa. F = Favus. S = Scabies. O.D. = Other Skin Diseases.

## (i) NUTRITION.

	SYSTEMATIC CASES									SPECIAL CASES.
	No. Exam- ined.	Above Average.		Average.		Below Average.		Mal- nutrition.		Malnu- trition.
		No.	%	No.	%	No.	%	No.	%	
Boys .. ...	3204	646	...	2298	...	236	...	24	...	3
Girls .. ...	3074	509	..	2205	...	327	...	33	...	5
Totals	6278	1155	18.39	4503	71.72	563	8.96	57	0.90	8

## (j) TEETH.

	SYSTEMATIC CASES.								SPECIAL CASES.	
	No. Exam- ined.	Teeth Sound.		1 to 4 Decayed.		5 and more Decayed.		Oral Sepsis.		Oral Sepsis.
		No.	%	No.	%	No.	%	No.	%	
Boys ...	3204	836	...	1796	...	572	...	39	..	1
Girls ...	3074	864	...	1685	...	525	...	33	...	...
Totals	6278	1700	27.07	3481	55.44	1097	17.47	72	1.14	1

## (ka) NOSE.

	SYSTEMATIC CASES.							SPECIAL CASES.		
	No. Exam- ined.	Catarrh.		Obstruc- tion.		Other Diseases.		Ca- tarrh.	Ob- struc- tion.	Other Dis- eases.
		No.	%	No.	%	No.	%			
Boys ... ..	3204	17	...	11	...	3	...	...	5	2
Girls ... ..	3074	25	...	5	...	3	...	3	1	2
Totals.	6278	42	0.66	16	0.25	6	0.09	3	6	4

## (kb) THROAT.

SYSTEMATIC CASES.										SPECIAL CASES.					
No. Examined.		Tonsils.				Adenoids.			Other Diseases.		Tonsils.		Adenoids.		Other Diseases.
		S.E.		M.E.		P.P.		P.							
		No.	%	No.	%	No.	%	No.	%	No.	%	S.E.	M.E.	P.P.	P.
Boys	...	3204	259	...	206	...	73	...	...	...	5	13	4	...	1
Girls	...	3074	283	...	243	...	71	...	1	...	10	25	13	...	1
Totals		6278	542	8.63	449	7.15	144	2.29	1	0.01	15	38	17	...	2

Note. S.E. = Slight Enlargement. M.E. = Marked Enlargement. P.P. = Probably Present. P. = Present.

## (ke) LYMPHATIC GLANDS.

SYSTEMATIC CASES.															SPECIAL CASES.			
No. Exam- ined.	P. E.		M. E.		S.		C.		P. E.	M. E.	S.	C.						
	No.	%	No.	%	No.	%	No.	%										
<i>Submaxillary Glands.</i>																		
Boys ... ..	3204	34	...	...	...	...	1	...	...	...	...	...	...					
Girls ... ..	3074	26	...	1	...	...	...	...	...	...	1	...	...					
Totals ... ..	6278	60	0.95	1	0.01	...	...	1	0.01	..	...	1	...					
<i>Cervical Glands.</i>																		
Boys ... ..	3204	447	...	13	...	2	...	37	...	5	2	...	...					
Girls ... ..	3074	392	...	8	...	5	..	41	...	9	1	...	5					
Totals ... ..	6278	839	13.36	21	0.33	7	0.11	78	1.24	14	3	...	5					

*Note.* — P. E. = Palpable Enlargement. M. E. = Marked Enlargement. S. = Suppurating.  
(\*) = Cicatrices (Scars of old-standing disease or operations).

## (l) EXTERNAL EYE DISEASES.

		SYSTEMATIC CASES.										SPECIAL CASES.				
	No. Exam- ined.	Blepharitis		Conjunc- tivitis.		Corneal Opacities.		Squint.		Other Diseases.		Blephar- itis.	Conjunc- tivitis.	Corneal Opac.	Squint.	O.D.
		No.	%	No.	%	No.	%	No.	%	No.	%					
Boys	3204	24	...	4	...	3	...	46	...	8	..	11	...	...	15	...
Girls	3074	25	...	4	...	5	...	66	..	5	...	5	3	...	5	2
Totals	6278	49	0.79	8	0.12	8	0.12	112	1.78	13	0.20	16	3	...	20	2



## (m) VISUAL ACUITY.

		SYSTEMATIC CASES.							SPECIAL CASES.	
		No. Exam- ined.	Good Vision 6/6		Fair Vision 6/9 & 6/12		Bad Vision 6/18 & worse		6/9 & 6/12	6/18 & worse
			No.	%	No.	%	No.	%	No.	No.
Boys	...	2292	1961	...	264	...	67	...	15	38
Girls	...	2158	1780	...	296	...	82	...	22	45
Totals	...	4450	3741	84.06	560	12.58	149	3.34	37	83

An analysis of the cases in which refractions were undertaken, either by Dr. E. M. Lithgow in Edinburgh or Dr. C. B. Ross in the County, is given on page 30 of this report.

With regard to the technical training of blind adults, there were at the commencement of the year under review in that department of the Royal Blind Asylum and School, Edinburgh 12 men and 1 woman. One man was admitted during the year and, as there were no discharges, there are now 13 men and 1 woman receiving training.

In the elementary school of the same Institution there were at the beginning of the year 1 boy and 4 girls from this County. As there were no admissions and no discharges this number will continue to be educated there in session 1930-31.

## (n) EARS.

		SYSTEMATIC CASES.							SPECIAL CASES.			
		No. Exam- ined.	Otorrhœa.		Wax.		Other Diseases		Otorr- hœa.	Wax.	O.D.	
			No.	%	No.	%	No.	%	No.	No.	No.	
Boys	...	3204	29	...	12	...	...	...	19	6	1	
Girls	...	3074	25	...	8	...	...	...	12	2	...	
Totals		...	6278	54	0.86	20	0.31	...	...	31	8	1

## (o) HEARING.

	SYSTEMATIC CASES.						SPECIAL CASES.	
	No. Exam- ined.	Slight Deafness.		Marked Deafness.			Slight Deafness.	Marked Deafness.
		No.	%	No.	%		No.	No.
Boys ...	3204	7	...	1	...		4	1
Girls ...	3074	5	...	...	...		4	1
Totals...	6278	12	0·19	1	0·01		8	2

During the year 1 girl was admitted to Royal Institution for the Education of Deaf and Dumb Children, Edinburgh. This brought the number being maintained and educated there from this County up to 8 (5 boys and 3 girls). All are due to continue their education there in session 1930-31.

## (p) SPEECH.

	SYSTEMATIC CASES.						SPECIAL CASES.	
	No. Exam- ined.	Defective Articulation.		Stammering.			Defective Articulation.	Stammer- ing.
		No.	%	No.	%		No.	No.
Boys ..	3204	15	...	2	...		...	...
Girls ...	3074	3	...	2	...		..	1
Totals...	6278	18	0·28	4	0·06		..	1

## (q) MENTAL CONDITION.

	SYSTEMATIC CASES.					SPECIAL CASES.	
	No. Exam- ined.	Dull.		Mentally Defective (all grades).		Dull.	Mentally Defective (all grades)
		No.	%.	No.	%.	No.	No.
Boys	3204	30	...	8	...	61	31
Girls	3074	14	...	5	...	57	27
Totals...	6278	44	0.70	13	0.20	118	58

The total number of children examined during the year from the mental point of view was 292. Of this number, 71 (39 boys and 32 girls) were certified as being, in the opinion of the Medical Officer concerned, mentally defective. Of these, 67 (38 boys and 29 girls) were classified as "educable in a Special Class or School," and consequently they were retained under the jurisdiction of the Education Committee. The remaining 4 children (1 boy and 3 girls) were certified as "ineducable in a Special Class or School" and notified to the appropriate Parish Council for their care and supervision. Of the remaining 221 children, 162 (91 boys and 71 girls) were found to show varying degrees of retardation between the border line of feeble-mindedness and low average intelligence, and 59 (38 boys and 21 girls) were of average intelligence.

With regard to children maintained by the Committee in Institutions for the mentally defective, the following table shows the situation clearly:—

	Baldovan Institution.		Larbert Institution.		St. Joseph's Institution.	
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
Resident at 1/8/29	2	...	3	2	...	2
Admitted during year	...	...	...	...	1	...
Discharged	2	...	1	...	1	...
Resident at 31/7/30	...	..	2	2	...	2

There are still several cases waiting for admission to these Institutions, but, owing to the continued shortage of accommodation, such admission is likely to be considerably delayed.

## (7) HEART AND CIRCULATION.

		SYSTEMATIC CASES.						SPECIAL CASES.			
	No. Examined.	Organic Disease.		Functional Disease.		Anemia.		Organic Disease.		Functional Disease.	Anemia.
		Congenital.	Acquired.	No.	%	No.	%	Congenital.	Acquired.	No.	No.
		No.	%								
Boys ...	3204	...	...	10	..	3	...	...	1	...	9
Girls ...	3074	...	...	12	...	7	...	...	...	...	12
Totals ...	6278	...	...	22	0.35	10	0.13	...	1	...	21

One boy was noted as having transposed viscera, *i.e.* the heart, stomach, and spleen were placed on the right side of the body and the liver on the left side. The guardian was interviewed and warned that this fact was always to be communicated to any medical practitioner who might in future be called in to attend the boy during illness. The boy himself was quite strong, although a somewhat difficult pupil to manage.

## (s) LUNGS.

	SYSTEMATIC CASES.						SPECIAL CASES.			
	No. Exam- ined.	Chronic Bronchitis.		Tuber- culosis.		Suspected Tuberculosis.		Other Diseases.		No.
		No.	%	No.	%	No.	%	No.	%	
Boys ..	3204	35	...	..	...	3	...	...	...	1
Girls ...	3074	40	...	1	..	2	...	3	...	2
Totals	6278	75	1·19	1	0·01	5	0·07	3	0·04	3
										6
										...
										1
										...
										1

For cases of Pulmonary Tuberculosis treated at East Fortune Sanatorium, see remarks under table (u) on page 21.

## (c) NERVOUS SYSTEM.

	SYSTEMATIC CASES.								SPECIAL CASES.				
	No. Exam- ined.	Epilepsy		Chorea.		Infantile Paralysis.		Other Diseases.		Epi- lepsy.	Chorea.	Infan- tile Para- lysis.	Other Dis- eases.
		No.	%	No.	%	No.	%	No.	%				
Boys ...	3204	2	...	...	...	3	...	1	...	...	2	2	1
Girls ...	3074	...	...	3	...	5	...	1	...	...	...	...	...
Totals	6278	2	0·03	3	0·04	8	0·12	2	0·03	...	2	2	1

## (u) TUBERCULOSIS (NON-PULMONARY).

		SYSTEMATIC CASES.										SPECIAL CASES.				
		Glands.		Bones and Joints.		Abdomen.		Skin.		Other Forms.		G.	B. & J.	A.	S.	O.F.
		No.	%	No.	%	No.	%	No.	%	No.	%					
Boys	...	3204	16	...	1	...	7	...	3	...	...	1	1	1	...	...
Girls	...	3074	11	...	6	...	2	...	...	...	...	3	...	2	...	...
Total		6278	27	0.43	7	0.11	9	0.14	3	0.04	...	4	1	3	...	...

During the year fifteen cases of Tuberculosis—actual or suspected—were admitted to East Fortune Sanatorium. Of these, three were pulmonary, and twelve non-pulmonary. Discharges from the Sanatorium numbered nine. At the end of the year six cases were still in residence—one pulmonary and five non-pulmonary.

## (v) RICKETS.

	SYSTEMATIC CASES.					SPECIAL CASES.	
	No. Exam- ined.	Slight Cases.		Severe Cases.		Slight Cases.	Severe Cases.
		No.	%.	No.	%.	No.	No.
Boys ...	3204	5	...	4	...	...	1
Girls ...	3074	6	...	6	...	...	1
Totals	3278	11	0·17	10	0·15	...	2

## (w) DEFORMITIES.

	SYSTEMATIC CASES.					SPECIAL CASES.	
	No. Exam- ined.	Con- genital.		Ac- quired.		Con- genital.	Ac- quired.
		No.	%	No.	%	No.	No.
Boys ...	3204	5	...	14	...	...	2
Girls ...	3074	6	...	16	...	...	3
Totals	6278	11	0·17	30	0·47	.	5



## (c) INFECTIOUS DISEASES.

TABLES I. AND II. (Combined).

Area No.	Aver. No. on Roll during year.	Total No. of Cases.	No. of Cases per 100 of School Population.	Areas in order of prevalence, (lowest first).	No. of Cases of							No. of Children in contact with cases of							Total No. of Con-tacts.
					Chicken Pox.	Diphtheria.	German Measles.	Measles.	Mumps.	Scarlet Fever.	Whooping Cough.								
1	1344	223	16.5	3	5	4	1	186	19	4	4	2	12	..	51	..	5	1	71
2	3010	951	31.5	7	31	32	3	135	630	23	97	8	59	2	65	1	42	39	216
3	1356	233	17.1	4	12	5	1	203	4	7	1	1	6	..	72	..	8	..	87
4	2496	516	20.7	6	58	19	..	116	267	13	43	3	19	..	40	27	7	4	100
5	2390	493	20.6	5	9	24	..	239	179	5	37	9	55	..	213	175	10	24	486
6	3626	533	14.6	2	26	9	..	252	212	20	14	4	12	..	63	1	27	..	107
7	2218	243	10.9	1	51	17	..	141	3	24	7	..	27	..	19	..	25	..	71
Totals	16440	3192	19.4	..	192	110	5	1272	1314	96	203	27	190	2	523	204	124	68	1138

TABLE III.

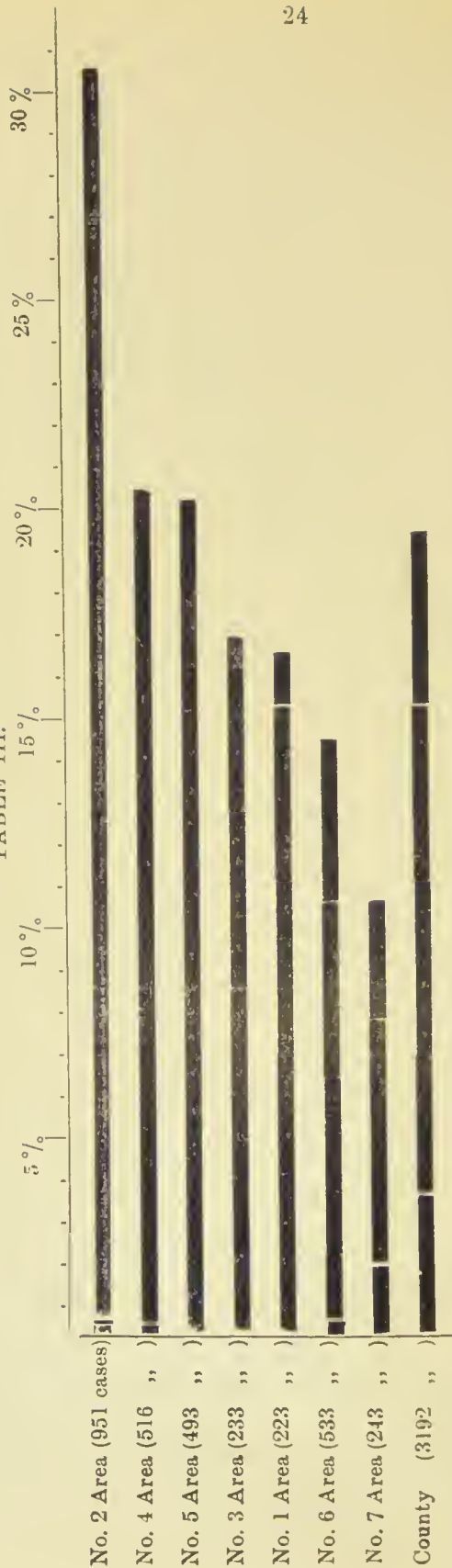


Table III. shows in graphic form the percentage incidence of Infectious Diseases in relation to school population in the various School Management Committee Areas as a whole.

TABLE IV.

Table IV. shows in graphic form the actual number of cases of the different infectious diseases in the county. Out of a total of 3192 cases, no fewer than 2586 were due, in approximately equal numbers, to Mumps and Measles—diseases which are impossible to control and which spread easily and rapidly. Regarding Mumps, 630 cases (approximately half the total number of cases) occurred in No. 2 area. Measles had a more general spread. Taking the infectious diseases as a whole the incidence this year is more than 4 times as much as that of the preceding year and is by far the greatest during the last 6 years.

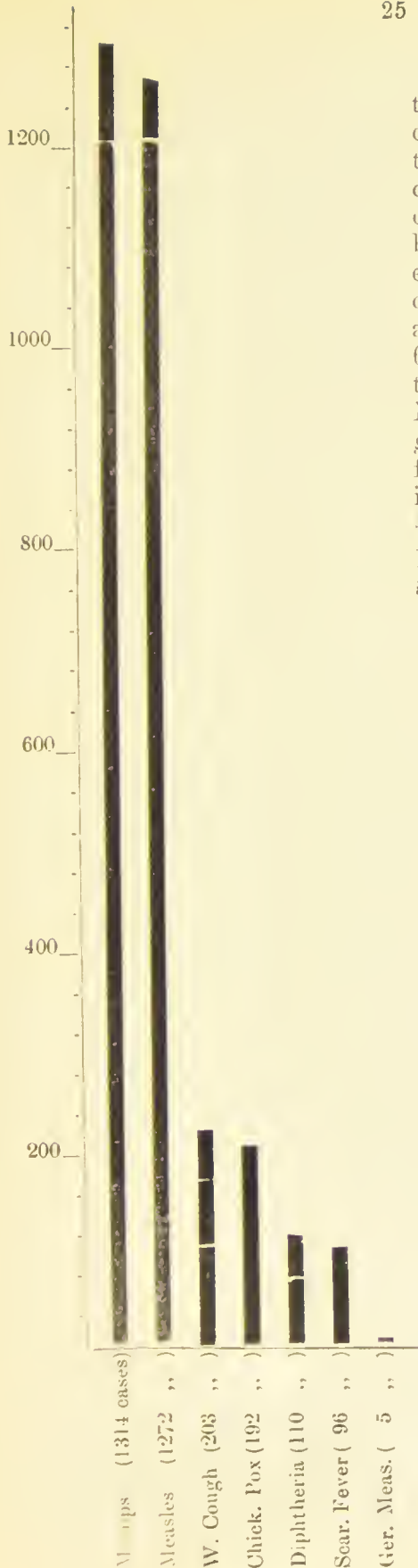


TABLE V.

Year.	School Management Committee Areas.						
	I.	II.	III.	IV.	V.	VI.	VII.
1920-21	1	4	5	2	6	3	7
1921-22	6	7	2	4	1	3	5
1922-23	4	6	5	7	3	2	1
1923-24	6	7	3	2	5	4	1
1924-25	1	6	7	2	5	4	3
1925-26	5	7	2	4	6	1	3
1926-27	6	4	1	2	3	5	7
1927-28	5	6	2	1	4	3	7
1928-29	5	4	7	6	3	2	1
1929-30	4	7	3	6	5	2	1

The above table shows the order of the areas with regard to the prevalence of infectious disease during the past 10 years (lowest first).

(y) OTHER DISEASES OR DEFECTS.

	SYSTEMATIC CASES.			SPECIAL CASES
	No. Examined.	Number of Diseases or Defects.	%	Number of Diseases or Defects.
Boys ...	3204	14	...	3
Girls ...	3074	14	...	5
Totals ...	6278	28	0.44	8

8.—SPECIAL SCHOOLS OR CLASSES.

The Special Classes for mentally defective and dull children at Armadale and South Queensferry Public, and Broxburn High

Schools continued in operation during the year. The following table shows various details regarding the classes :—

	Armada P.S.	Broxburn H.S.	So. Queens- ferry P.S.
No. of Children on Roll as at 3/9/29	25	16	14
Do. do. as at 17/7/30	25	17	15
Number of M.D. children ... ..	21	16	11
Number of very dull children ...	4	1	4
Attendance—% ... ..	88·8	86·9	89·1
Range of I.Q. ... ..	50 to 81	50 to 79	52 to 82
Range of ages (actual) ... ..	8 to 15	9 to 15	7 to 15
No. leaving class during year ...	3	7	3
No. admitted to class during year...	3	8	4

Increasing difficulty is being experienced in regard to the staffing of these classes. During the coming session not one of the classes will be under the charge of a teacher with the qualifications expected by the Department. There would appear to be some reluctance on the part of teachers generally to undertake the training necessary to secure these qualifications, partly due to the length of such training itself and partly due to an innate dislike for work connected with mentally abnormal children.

## 9.—ARRANGEMENTS FOR THE PHYSICAL EDUCATION AND PERSONAL HYGIENE OF THE CHILDREN.

(a) PHYSICAL EXERCISES.—Up to the close of the year, the staff engaged in the scheme of physical education was composed of the following members :—

- (1) Two whole-time instructors recognised under Chapter VI. and entirely engaged in teaching.
- (2) Six whole-time instructresses, all of whom are recognised under Chapter VI.

(b) BATHS.—See Report for year ending 31st July, 1921.

(c) PERSONAL HYGIENE.—No definite scheme of instruction in regard to the laws of health—personal and communal—exists in the schools, but this matter is at present engaging the attention of a Joint Sub-Committee representative of the Studies and Health and Area Sub-Committees with a view to putting the matter on an organised basis. A tentative scheme has been drawn up for adoption in certain schools in the county. Its operation will be watched carefully and with interest so that it may be extended if successful.

### 10.—ARRANGEMENTS FOR THE FEEDING OF CHILDREN.

The following tabular statement has been compiled by the Supervisor of Domestic Training. It gives a complete analysis of what has been done in this connection :—

#### DETAILS OF FEEDING CENTRES.

School.	Opened.	Closed.	No. of Days in O'ration.	No. of Meals.		Charge to Pupil per Day	Nature of Meal.
				Total.	Av. per Day.		
Abercorn P.	14/10/29	17/3/30	100	4812	48	1d.	Soup
Bathgate Acad.	15/11/29	14.2/30	56	2814	50	2d.	Soup & Bread
Blackness P.	28/10/29	28/2/30	80	2170	27	1d.	Soup & Cocoa
Fauldhouse P.	4/11/29	21/3/30	85	3175	36	1d.	Soup
Grange P.	10/10/29	9/12/29	36	1054	29	1d.	Soup & Cocoa
Linlithgow Ac.	28/10/29	28/3/30	100	3120	31	2d.	Soup & Roll
Linlithgow P.	4/11/29	16/4/30	108	4428	41	½d.	Cocoa
S. Queensferry P.	20/1/30	21/3/30	45	1717	38	1d	Soup
Whitburn P.	7/1/30	28/2/30	39	1717	44	1d.	Soup & Cocoa
Winchburgh P.	18/11/29	7/3/30	68	2294	33	1d.	Soup
Totals			717	27,301	38		

These arrangements are all good so far as they go, but it is desirable that efforts should be made, if at all possible, to have them in operation for the months November to March (inclusive). Further, it is desirable that soup should be provided at all the centres.

## 11.—ARRANGEMENTS FOR MEDICAL ATTENDANCE.

(a) MINOR AILMENTS : 1, 2, 3, and 5.—The Clinics for the treatment of minor ailments (16 in number) continued in active operation during the year. The numerical details of the work carried on therein are given in the following table :—

	Ears.	Nose. &c.	Eyes.	Skin.		General	Totals.
				Head.	Body.		
No. of Cases ...	567	53	658	863	287	4724	7152
No. of Attendances	11340	1566	9865	9568	2925	40800	76064

The number of cases treated and the number of attendances per case treated were respectively 7152 and 76064. The corresponding figures last year were 6848 and 77,417.

(4) RINGWORM AND FAVUS & (5) OTHER DISEASES.—See Report for year ending 31st July, 1921, page 36.

(b) DEFECTIVE VISION.—The following report and table have been compiled from figures supplied by Drs. E. M. Lithgow and C. B. Ross, each of whom was responsible for the work during approximately equal parts of the year :—

During the session under review, refractions were made in 206 cases of defective vision (Dr. Lithgow 105 cases, and Dr. Ross 101 cases). The cases examined by Dr. Ross were seen in the eye clinics which have been fitted up in Bo'ness and Broxburn. The equipment there is excellent and the rooms can be properly darkened. A third eye clinic is being fitted up in Mid St. School, Bathgate, and will be ready for use at the commencement of the new session.



The following table gives a complete analysis of the conditions which were found to be present in the cases examined :—

#### ANALYSIS OF VISUAL DEFECTS.

	Boys.	Girls.	Totals.
Hypermetropia ... ..	26	31	57
Hypermetropic Astigmatism ...	38	49	87
Myopia ... ..	7	17	24
Myopic Astigmatism ... ..	11	18	29
Mixed Astigmatism ... ..	11	11	22
Internal Strabismus ... ..	42	41	83
External Strabismus ... ..	...	1	1
Amblyopia (one eye) ... ..	18	15	33
Corneal Nebulae ... ..	5	7	12
Blepharitis ... ..	4	3	7
Conjunctivitis ... ..	...	2	2
Congenital Nystagmus ... ..	5	1	6
Keratitis ... ..	...	1	1
Totals... ..	167	197	364

One case of Coloboma of Choroid and Iris and one case of Cataract were also met with. Spectacles were found to be necessary in a very large majority of the cases and were duly prescribed.

Spectacles were prescribed for three pupils at the Edinburgh Royal Infirmary and were procured for them through the Committee's scheme.

(c) DEFECTIVE TEETH.—The Dentist has submitted the following report regarding the work carried out in his department during the year :—

I have much pleasure in submitting my first report which covers the period from the time of my appointment on 25th November, 1929 to 17th July, 1930.

The condition of the teeth, both from the point of view of repair and cleanliness is very bad indeed. It is therefore imperative that every child of school age should be inspected and where necessary, treated as often as possible. It is also equally imperative that having been inspected and treated, some means must be devised to ensure that



the work of the dentist is not undone through lack of cleanliness on the part of the child.

I started by treating the age groups 6 to 9 years, but soon discovered that if I continued to treat this group only I would have completed it in two or three months. It was therefore found necessary to include more groups and it was decided to treat the alternate groups, 6, 8, 10, 12 and 14 years. This was undoubtedly a great advance as it ensured every child being inspected and treated every two years at least. This arrangement worked very well indeed, only I felt that in missing the intervening groups, teeth which could quite well be saved would next year be past repair. Accordingly on 7th March I suggested to you that every child should be inspected and treated, and this scheme has been in operation since I started treatment at Fauldhouse on 5th June. In Fauldhouse Public School alone, I examined 454 children and treated 258.

I estimate that it may take nearly two years to get over all the schools in this way as I will have a great deal of additional inspection and propaganda to carry through at the same time. I am of opinion however, that having treated each school thoroughly it may be possible thereafter to complete the circuit annually.

A very great part of my time so far has been spent on organisation and propaganda, but the amount of time to be spent on organisation is becoming progressively less. Propaganda on the other hand will continue to occupy a considerable part of my time. In this connection a great deal has been done through the medium of talks, films, gramophone records and by giving prizes for essays on "The Care of the Teeth." Much however remains to be done and I am devoting my energies principally to the distribution of toothbrushes and paste and I am confident that by the time I have completed my present circuit practically every child will be in possession of the necessary equipment. During my visit to Fauldhouse I have disposed of 40 dozen toothbrushes and 40 dozen tins of paste.

I am carrying out an experiment in all the Bo'ness schools which is roughly as follows :—On a certain day fixed by the Headmaster all the children are required to bring to school any dental equipment which they possess. An inspection is made by the teachers who make a record of the numbers with and without brushes and paste. A list of those children who have no equipment having been obtained, each child is interviewed and in every case so far they have been persuaded to purchase a brush and paste. Bo'ness Academy and Bo'ness Public are already completely equipped and are ready for the second part of the experiment which consists of an inspection of brushes, paste and teeth on the first Tuesday of each month. I intend to carry through this inspection personally to begin with but subsequently it will be undertaken by the teachers. I am now carrying out this experiment in each school as the treatment is completed.

Schools visited ... ..	39
Number of children examined ... ..	5690
Number of children requiring treatment ...	3673
Number of children treated ... ..	2063
Extractions—Temporary ... ..	1753
Extractions—Permanent ... ..	750
Fillings ... ..	1443
Scalings ... ..	1234
Silver Nitrate Treatments ... ..	2336
Other operations ... ..	42

(Signed) ALLANWOOD NEILSON.

(d) OPERATIONS.—These continue to be arranged for by the parents of the children requiring them either with the family doctor or, through him, with one or other of the large hospitals. The total number of operations so carried out amounted during the year to 130, details of which are given in the undernoted table :—

Tonsils.		Tonsils and Adenoids.		Other Conditions.	
Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
57	60	1	4	5	3

(e) DEFORMITIES.—Any operative or remedial treatment for deformities is usually carried out under the terms of the preceding paragraph. Three cases of pigeon chest were referred to one of the physical training experts for chest and breathing exercises. Their progress will be noted periodically.

## 12.—STUDENTS IN PRELIMINARY TRAINING.

During the year 16 candidates (2 boys and 14 girls) were examined. One of the girls was noted as having a severe degree of flat foot, very largely contributed to by the stupid type of footgear she had been in the habit of wearing. There was some hesitation in passing her, but after consultation with the Medical Officer of the Scottish Education Department and the Director of Education, her application was approved. She will be kept under observation both here and in the Training College. The case of another girl was postponed for a year owing to eye trouble. All the others were approved.

The following table gives the location of the Students in the four secondary schools :—

	Boys.	Girls.
Bathgate Academy ... ..	...	5
Bo'ness Academy ... ..	1	3
Broxburn High School ... ..	1	6
Linlithgow Academy ... ..	...	...
Totals .. ..	2	14

### 13.—MISCELLANEOUS.

Approximately 30 examinations were made in the Education Office during the year. These were mostly of young and delicate children commencing school life, regarding whose fitness to enrol there was some doubt.

The medical histories of 27 candidates for appointment as teachers under the Committee were considered during the year. Of these 26 were approved and 1 was delayed for further consideration.

*John Hunter.*  
Medical Officer.

Education Offices,  
Bathgate, October, 1930.









